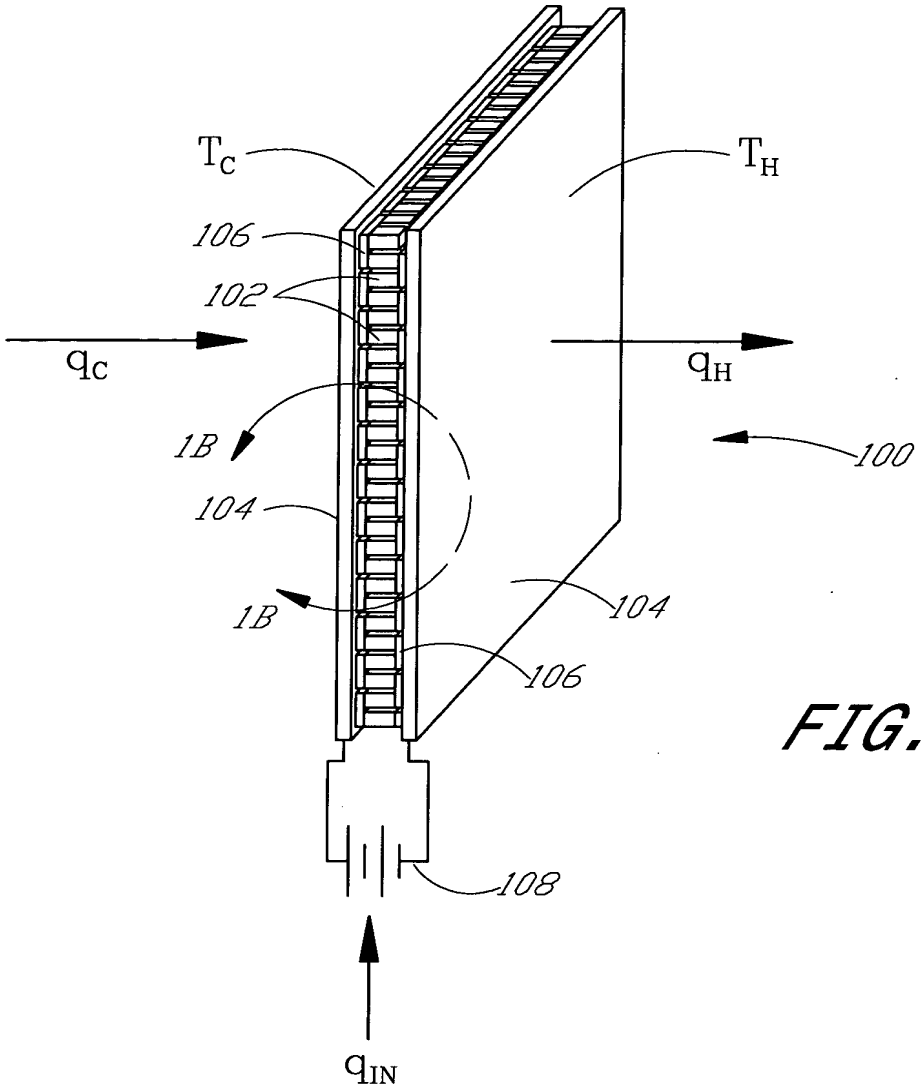

T_C
T_H
106
102
q_C
q_H
1B
100
104
1B
104
106
108
q_{IN}

FIG. 1A

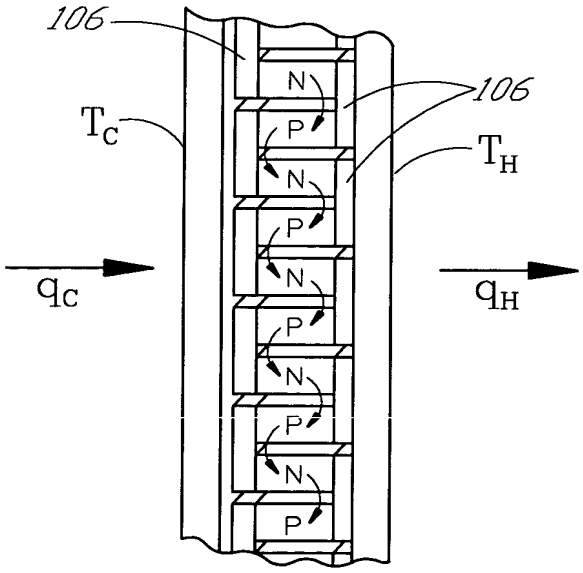

106
106
T_C
T_H
N
P
q_C
q_H

FIG. 1B

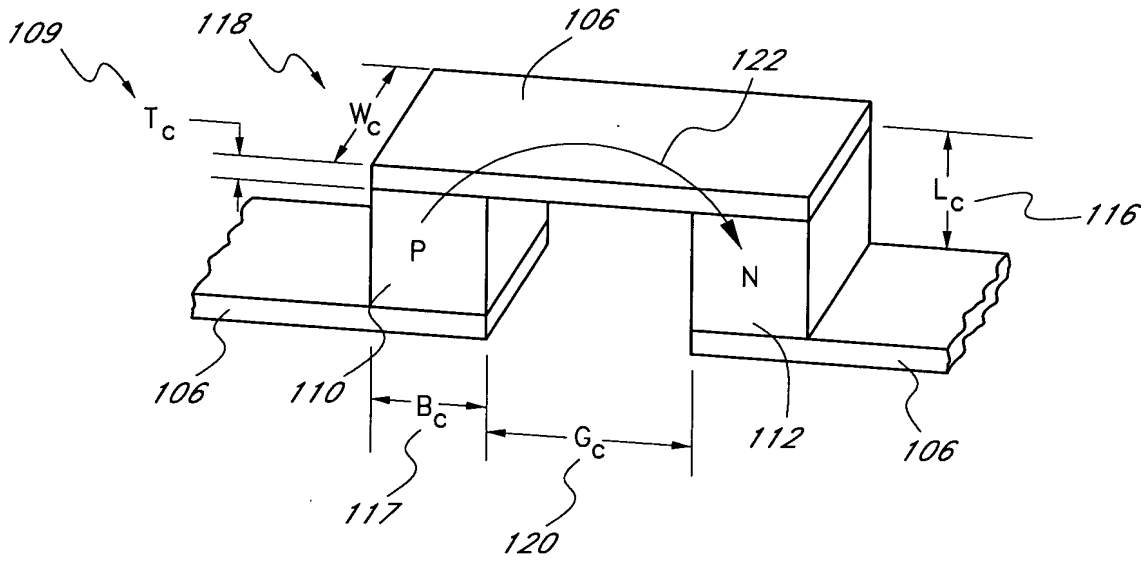


FIG. 1C

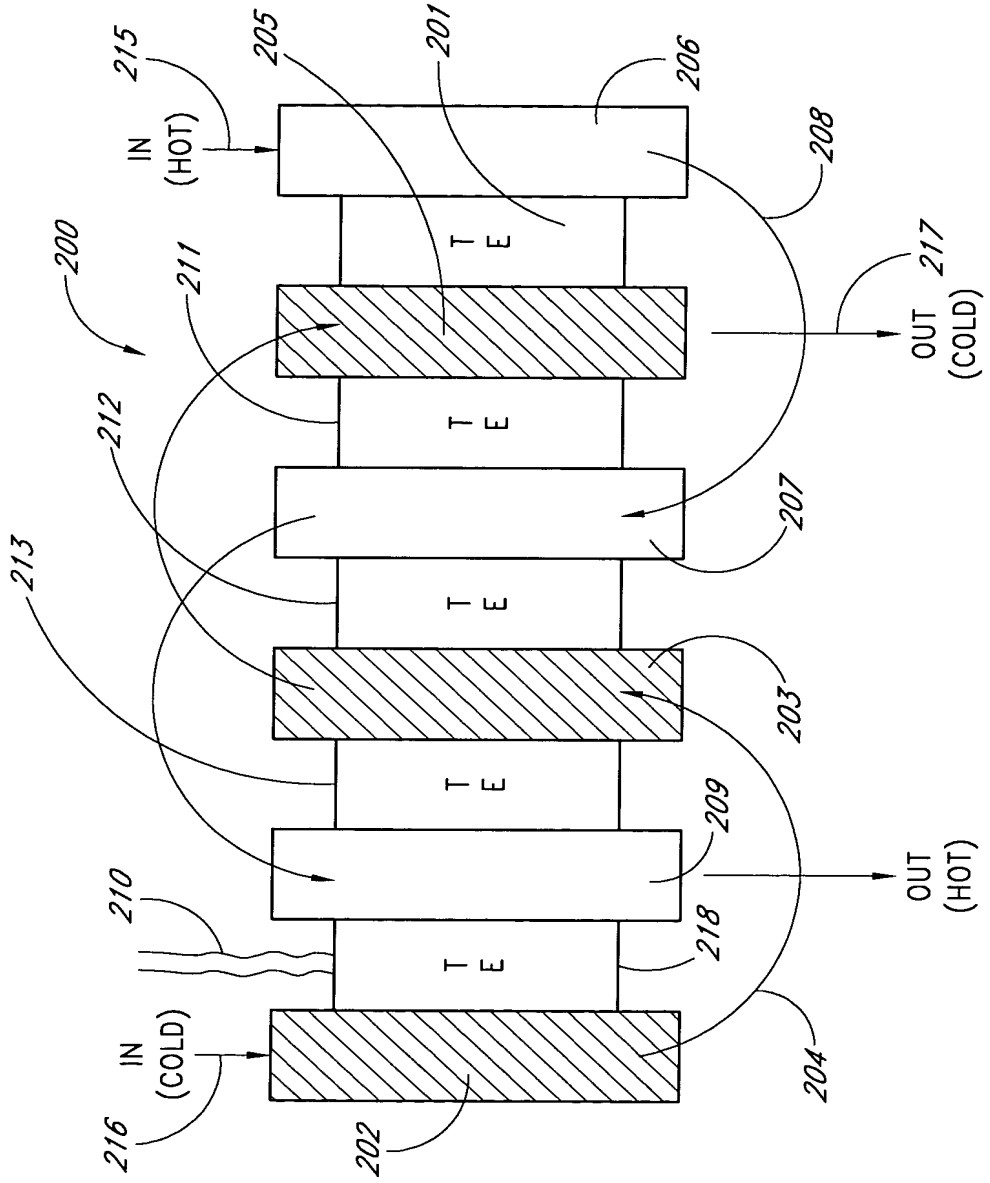

200
201
202
203
204
205
206
207
208
209
210
211
212
213
215
216
217
218
IN (HOT)
OUT (COLD)
OUT (HOT)
IN (COLD)
T E
T E
T E
T E
T E

FIG. 2

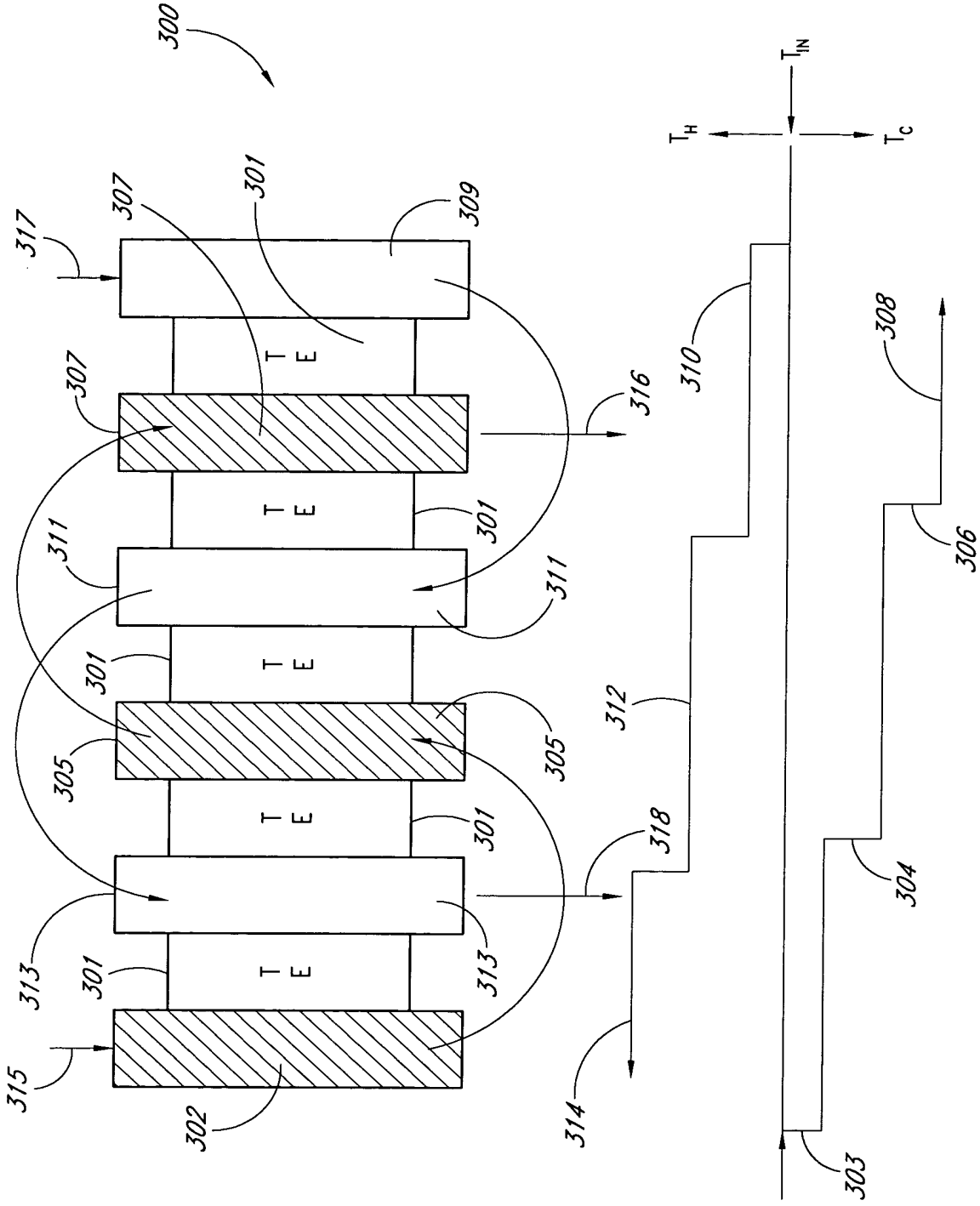

300
317
307
301
309
T E
316
310
308
311
305
312
318
304
313
315
302
314
303
306
T_{IN}
T_H
T_C

FIG. 3

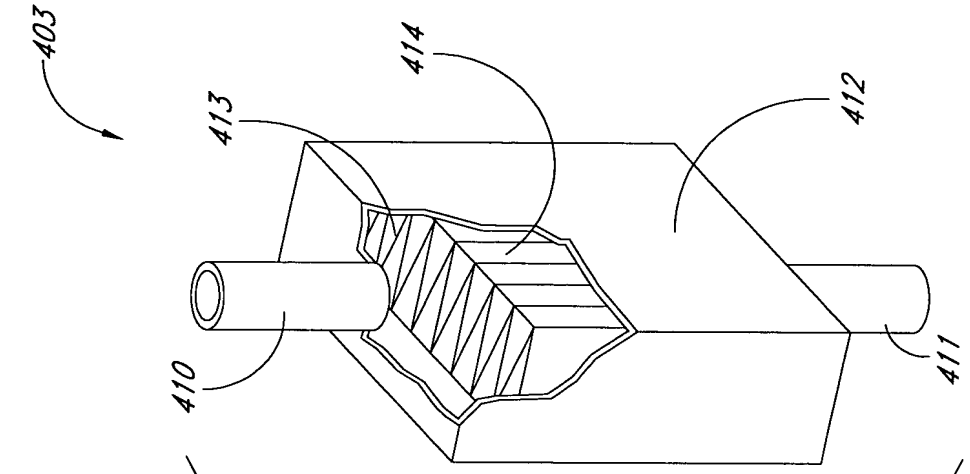


FIG. 4B

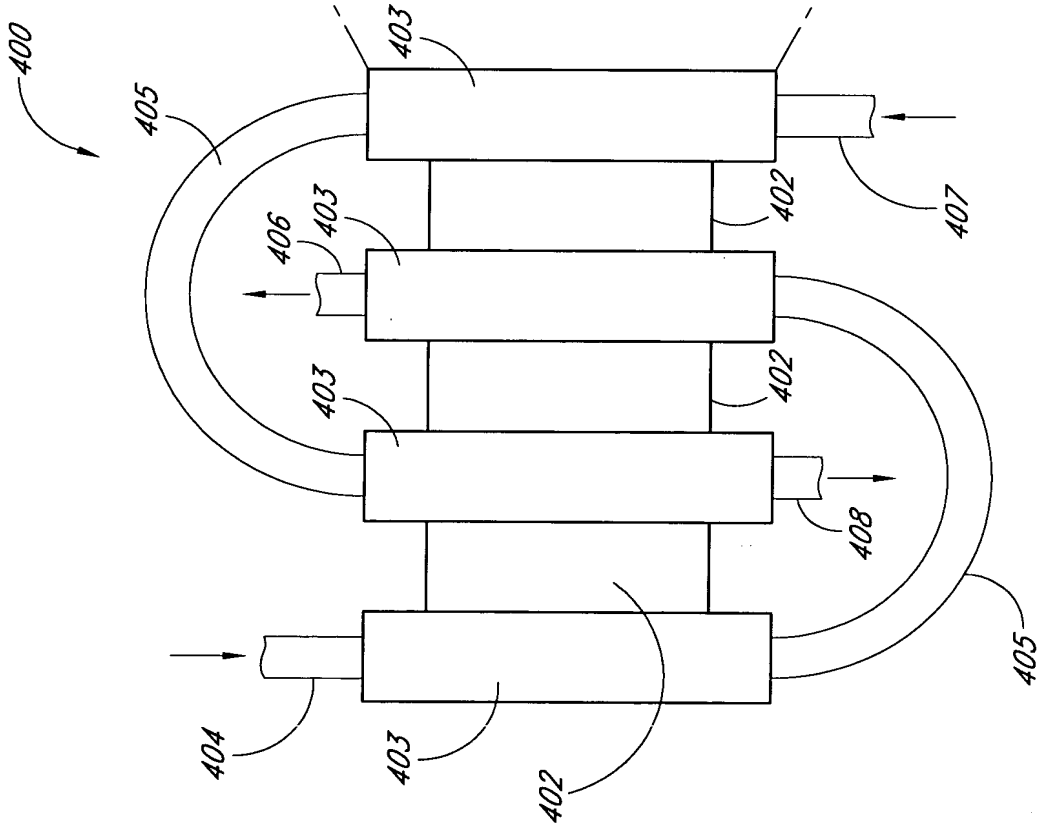


FIG. 4A

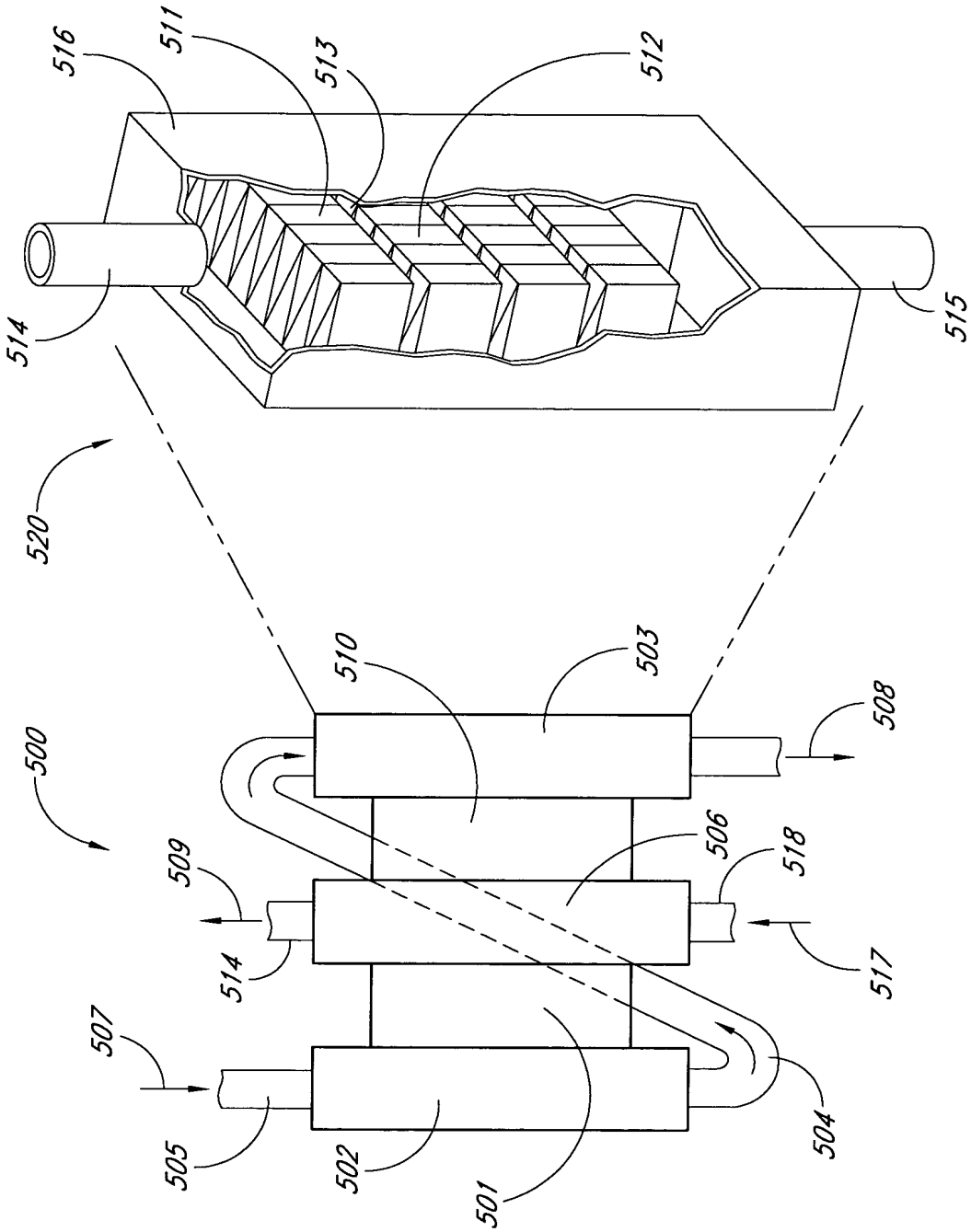
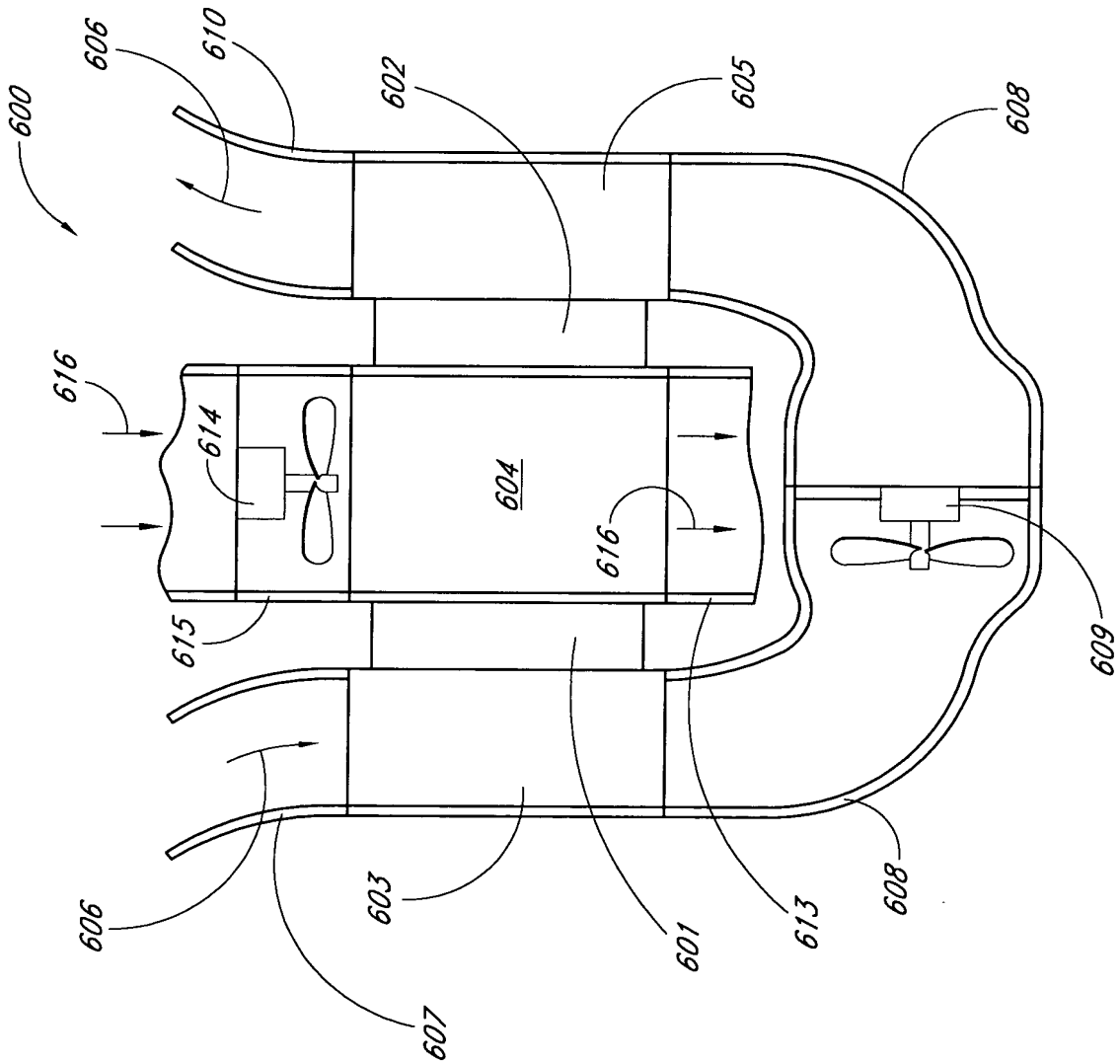

516
511
513
512
514
515
520
500
510
503
508
509
506
518
514
517
507
505
502
501
504

FIG. 5B

FIG. 5A

FIG. 6


600
606
610
602
605
608
616
614
604
616
615
609
606
603
601
613
608
607

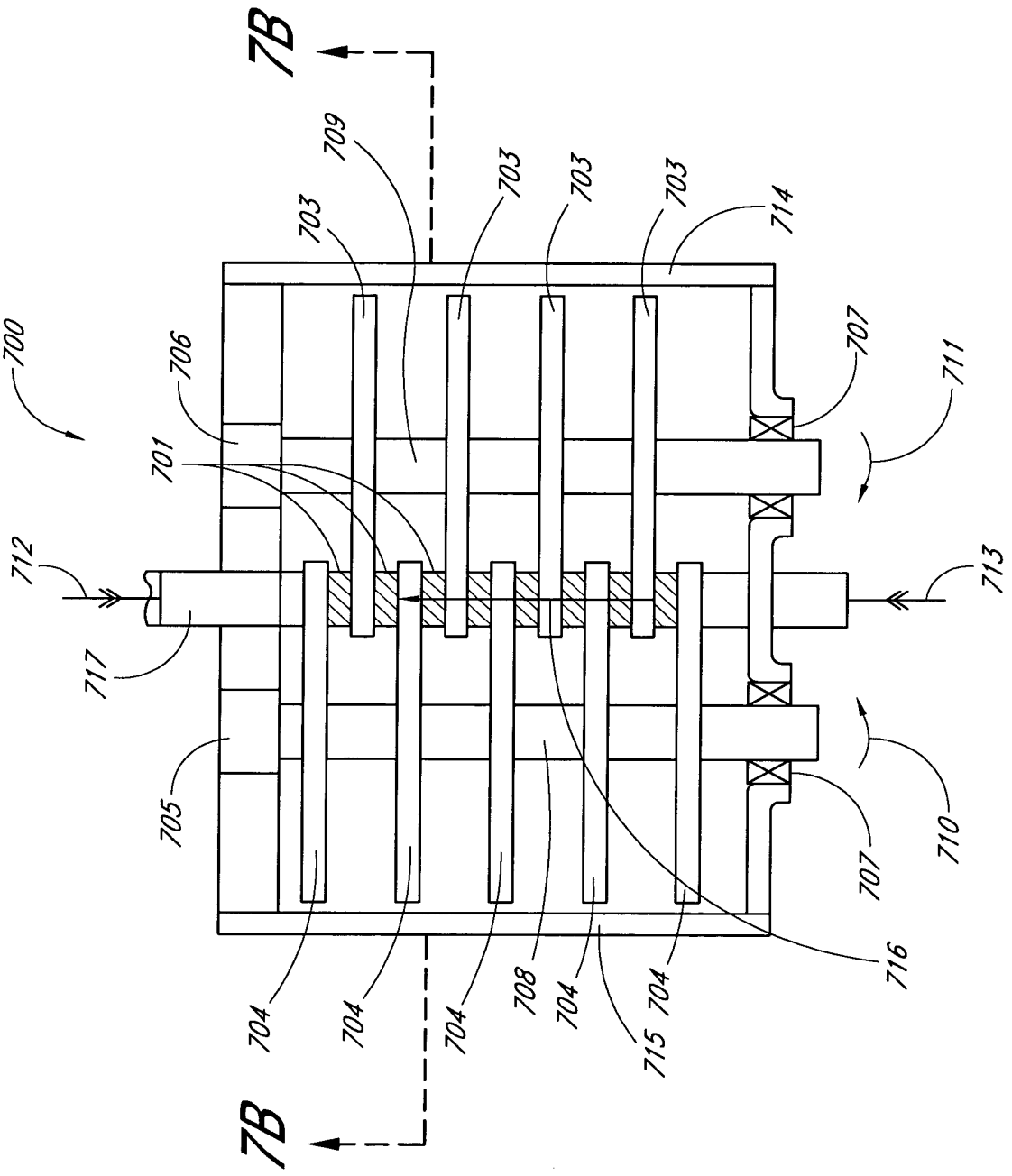

7B
709
703
703
703
714
700
706
707
711
701
712
713
717
705
710
707
716
704
704
704
708
704
704
715
7B

FIG. 7A

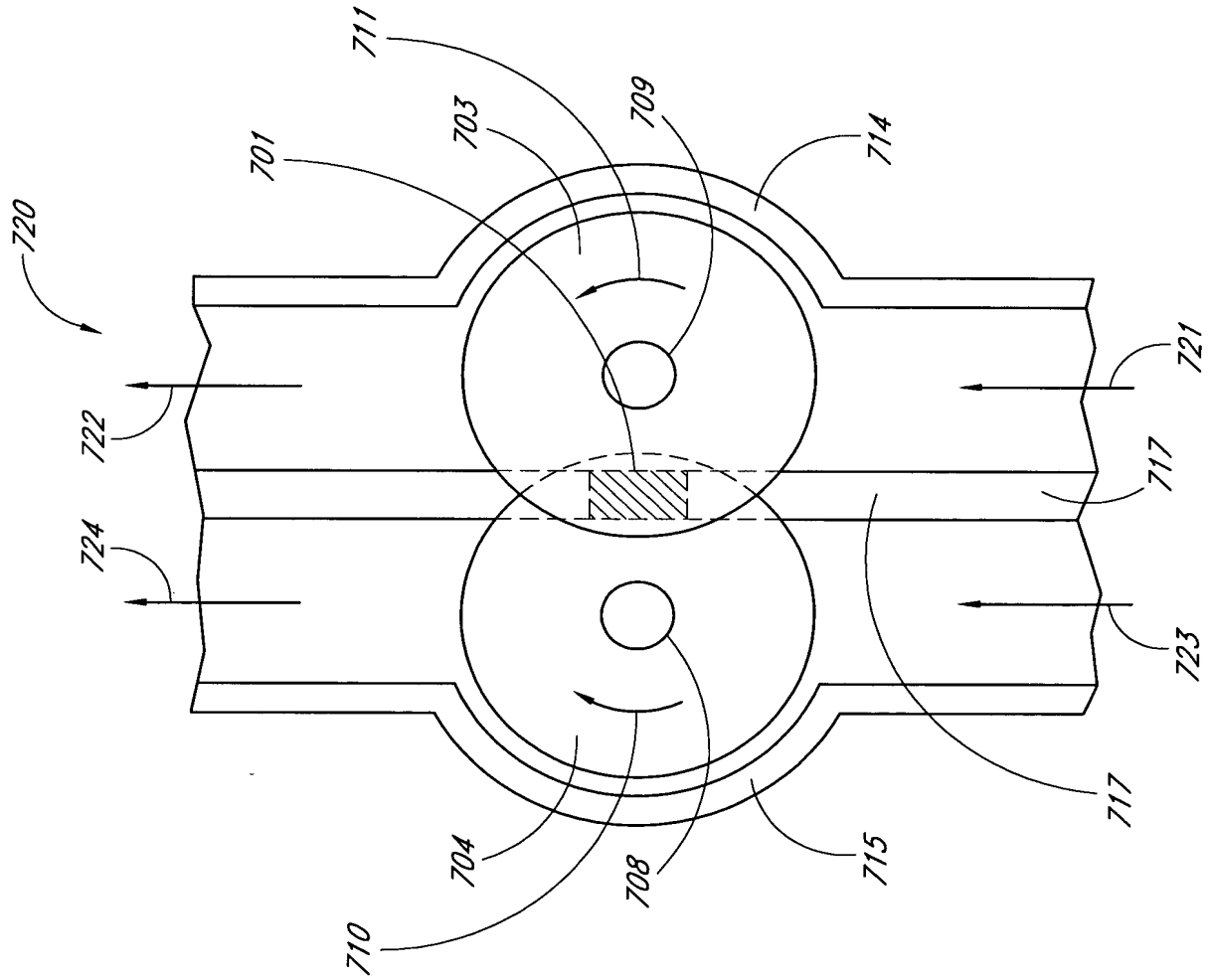


FIG. 7B

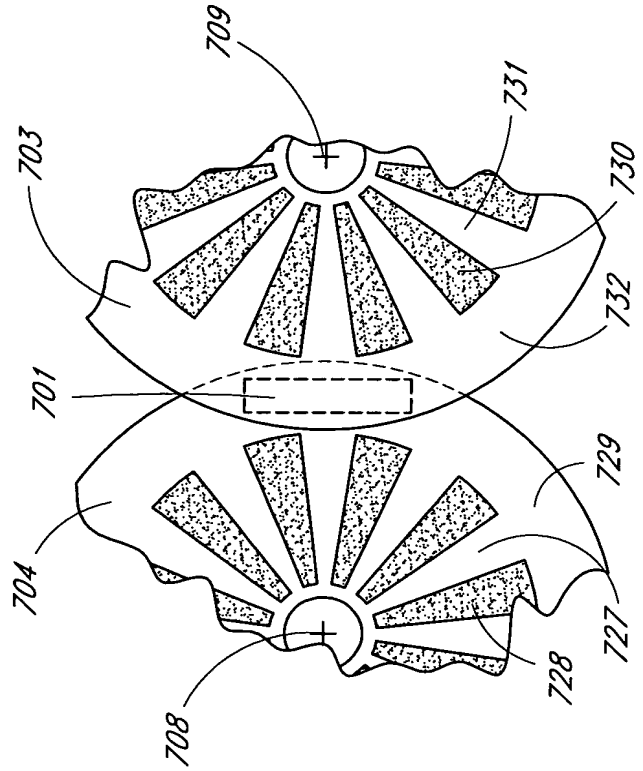

709
731
703
730
732
701
729
704
727
728
708

FIG. 7D

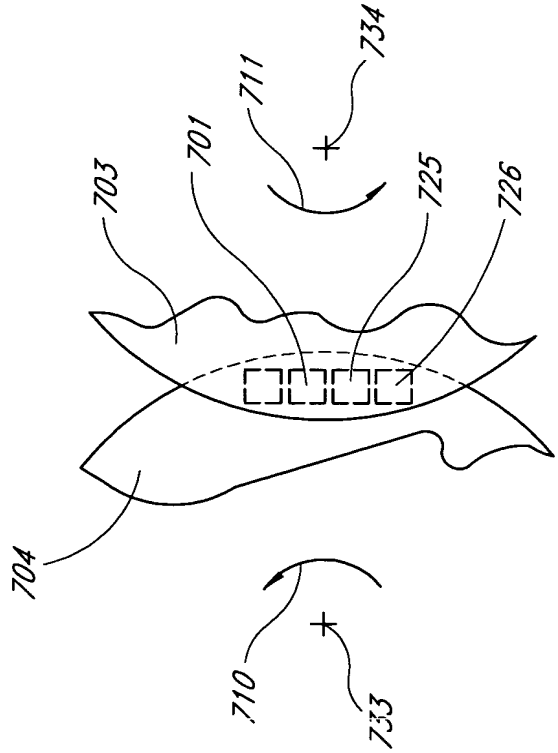

734
711
701
703
725
726
704
710
733

FIG. 7C

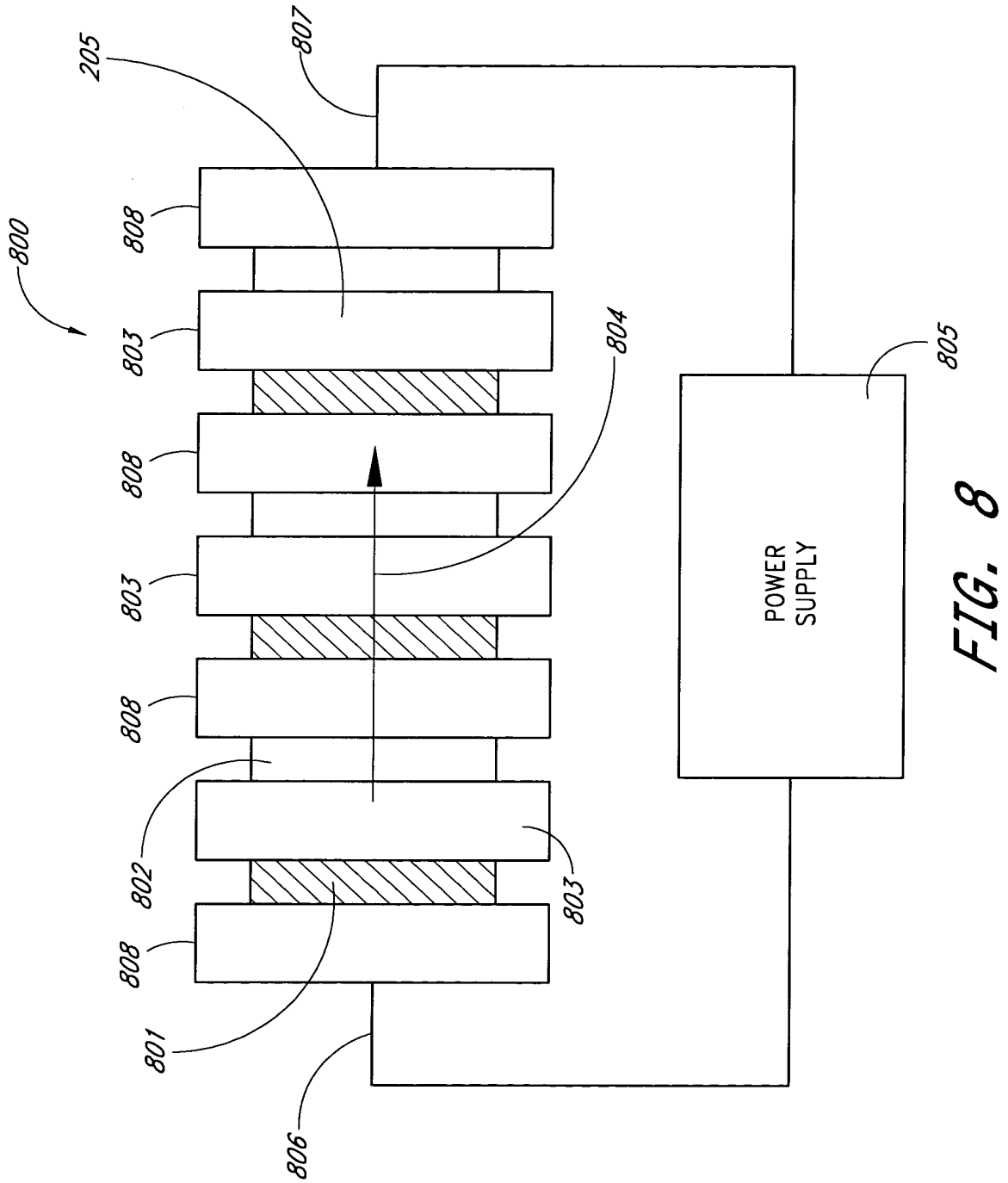

205
807
800
808
803
804
805
808
803
808
POWER SUPPLY
802
803
808
801
806

FIG. 8

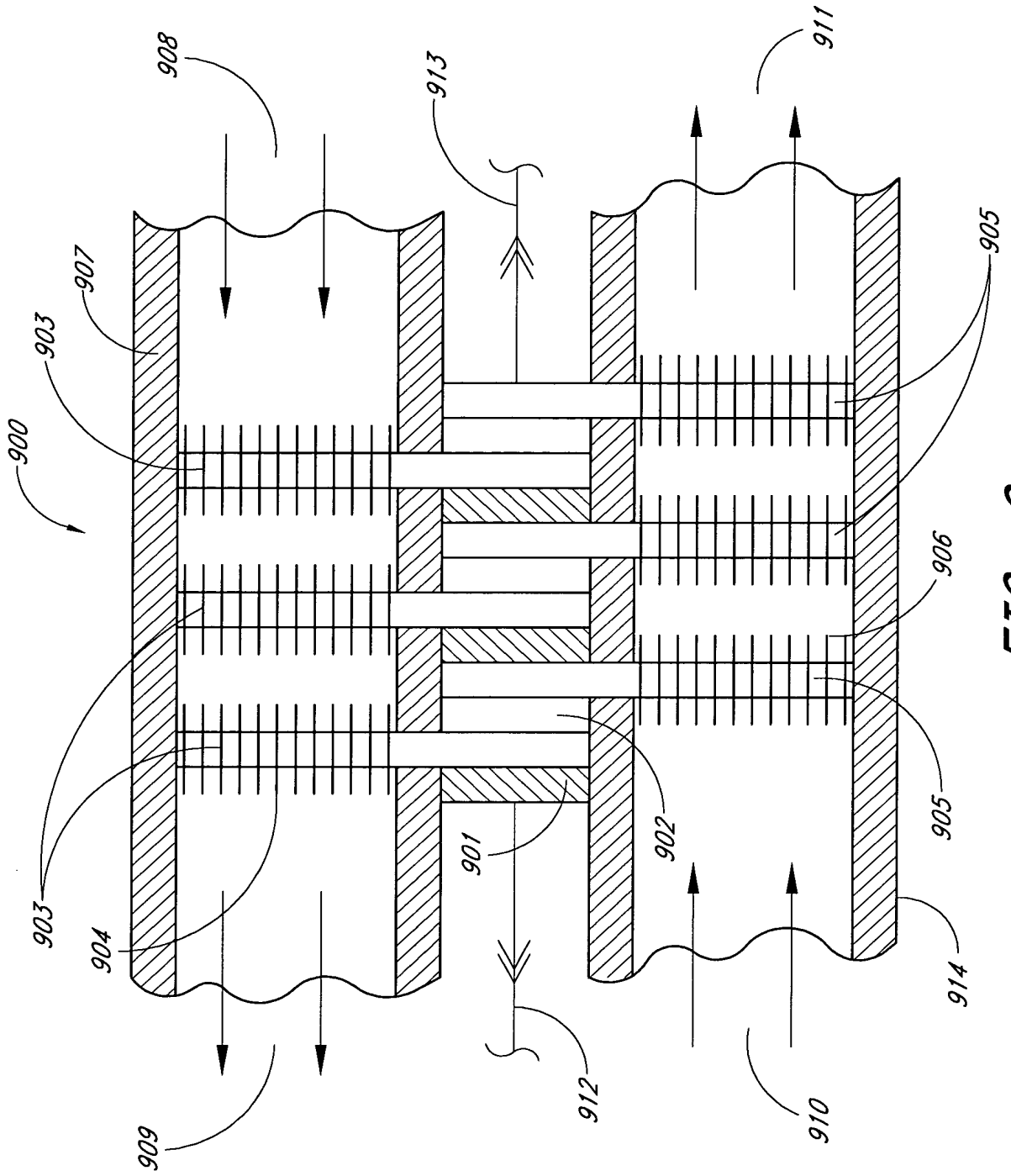

908
913
911
907
905
903
900
906
903
902
905
901
904
914
912
909
910

FIG. 9

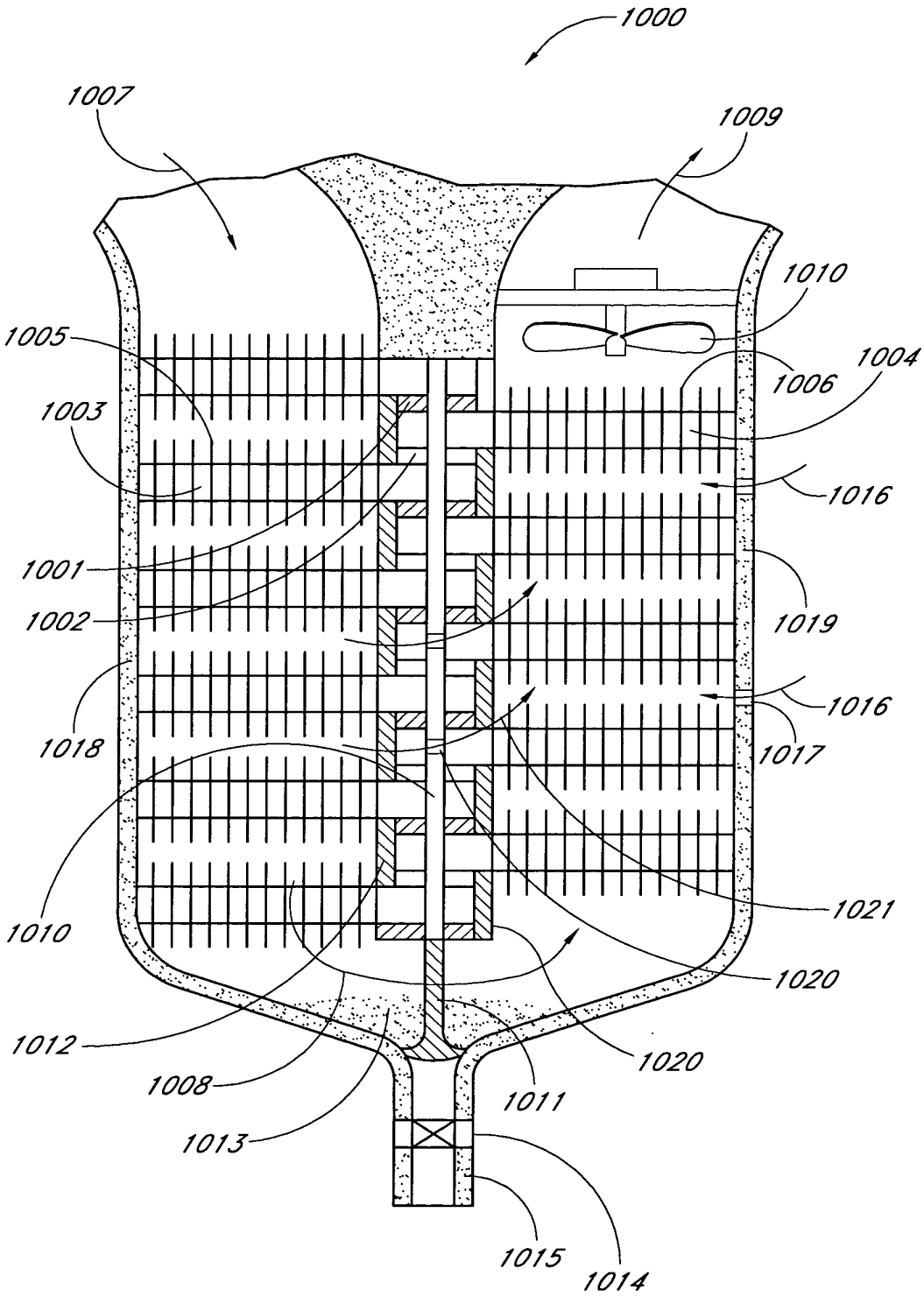

1000
1007
1009
1010
1005
1004
1006
1003
1016
1001
1002
1019
1016
1018
1017
1021
1010
1020
1012
1020
1008
1011
1013
1015
1014

FIG. 10

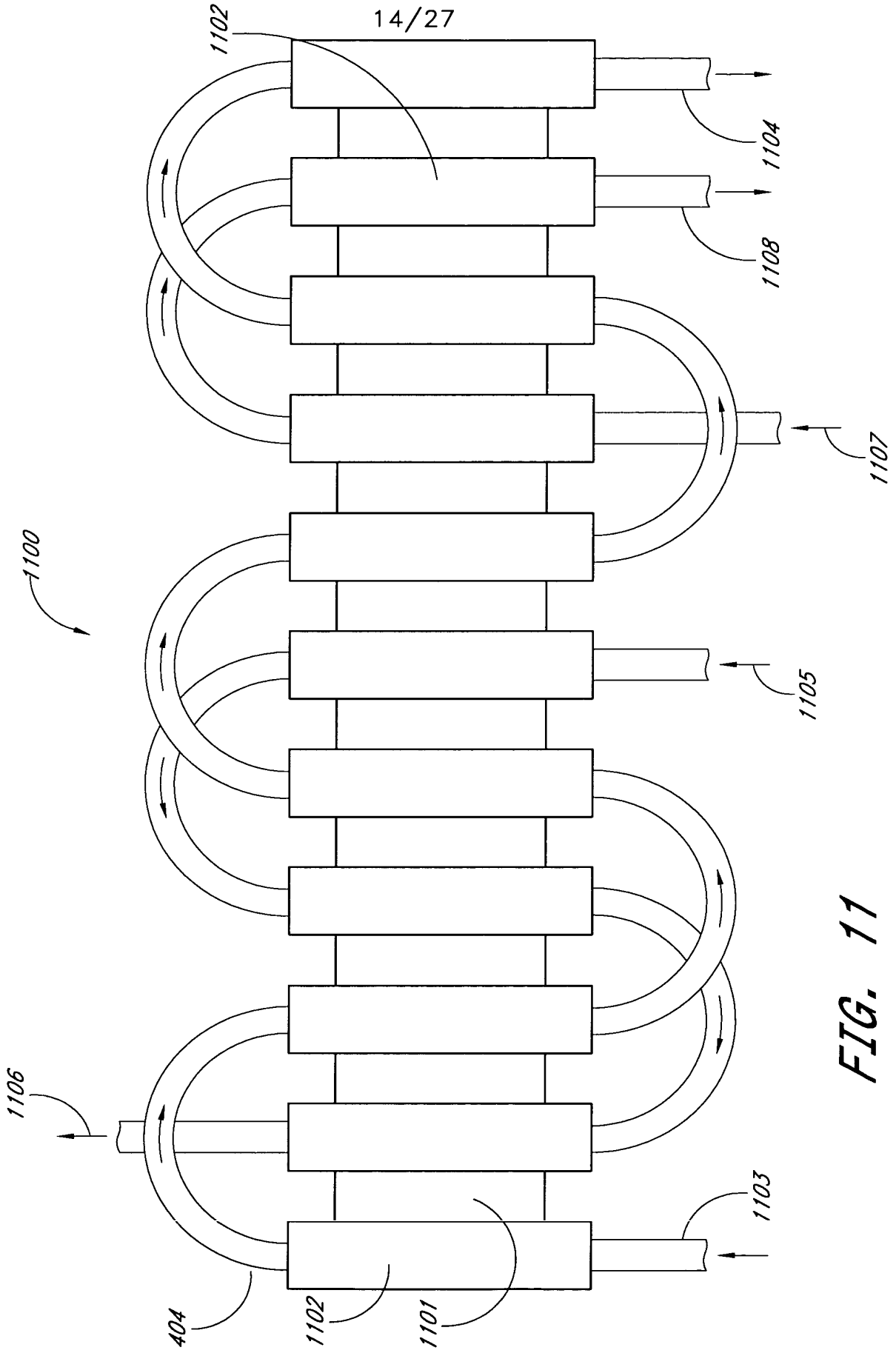


FIG. 11

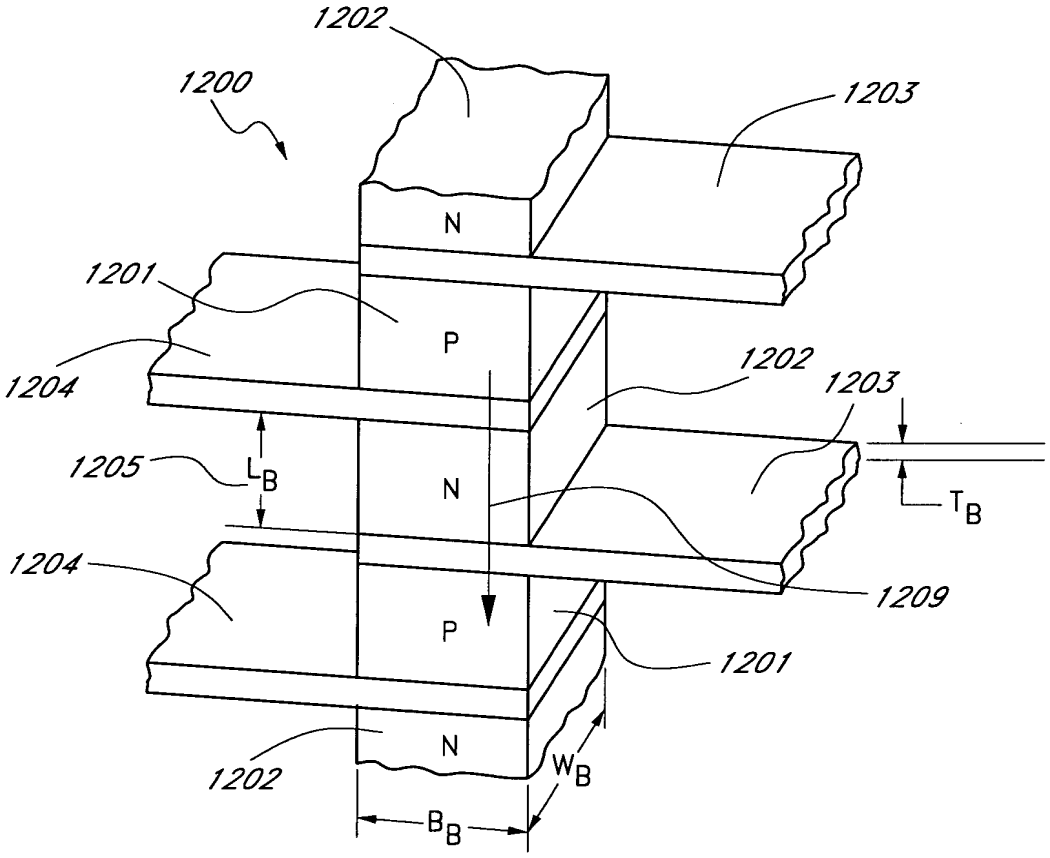

1202
1200
1203
N
1201
P
1204
1202
1203
1205
L_B
N
T_B
1204
1209
P
1201
N
1202
W_B
B_B

FIG. 12

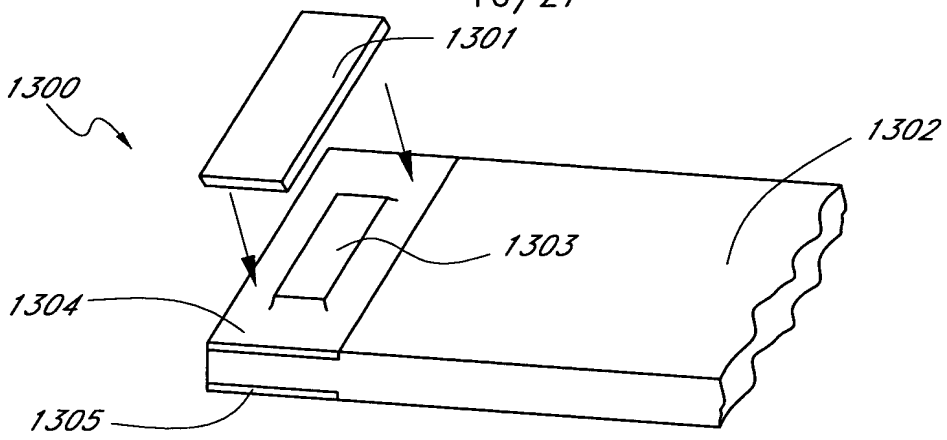


FIG. 13A

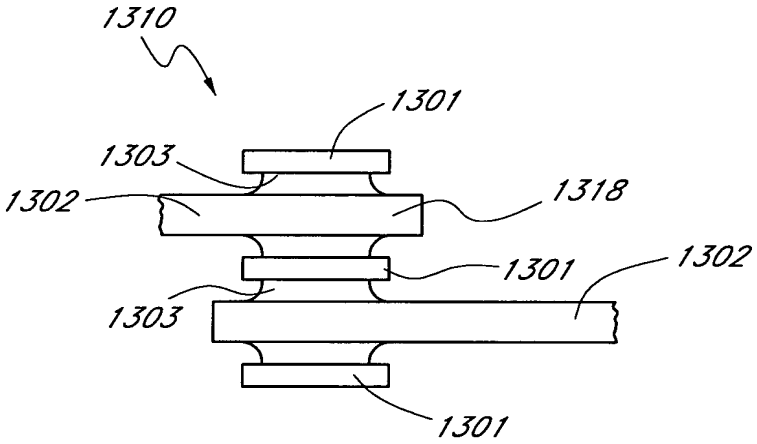


FIG. 13B

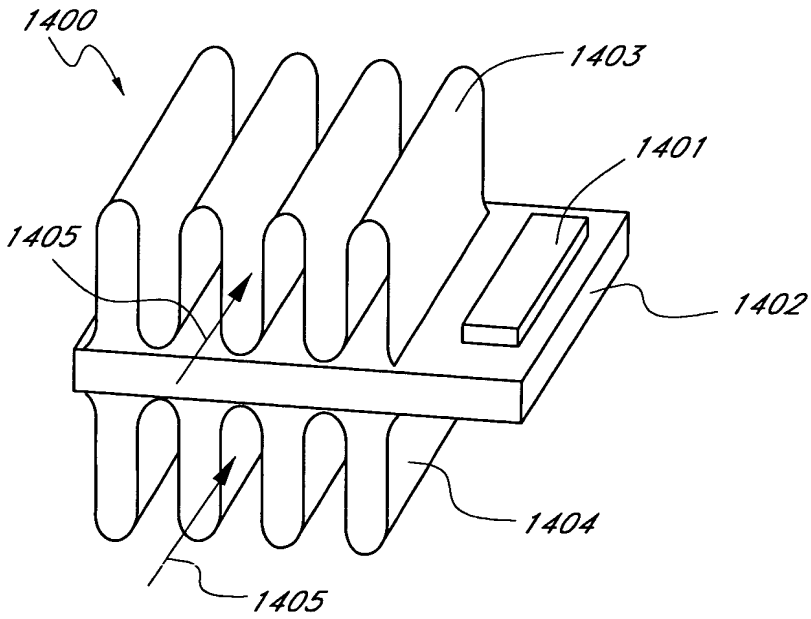


FIG. 14

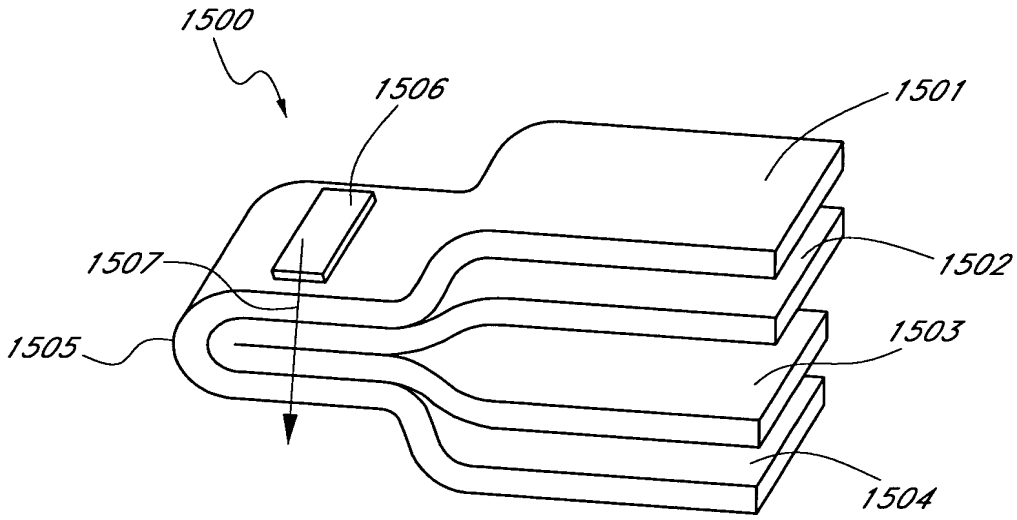

1500
1506
1501
1507
1502
1505
1503
1504

FIG. 15

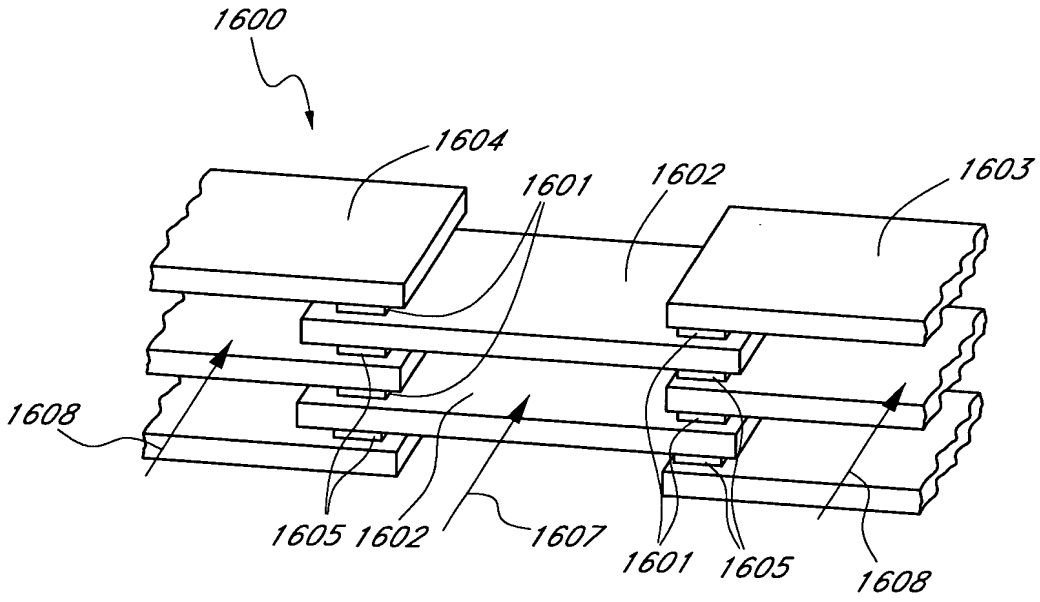

1600
1604
1601
1602
1603
1608
1605
1602
1607
1601
1605
1608

FIG. 16

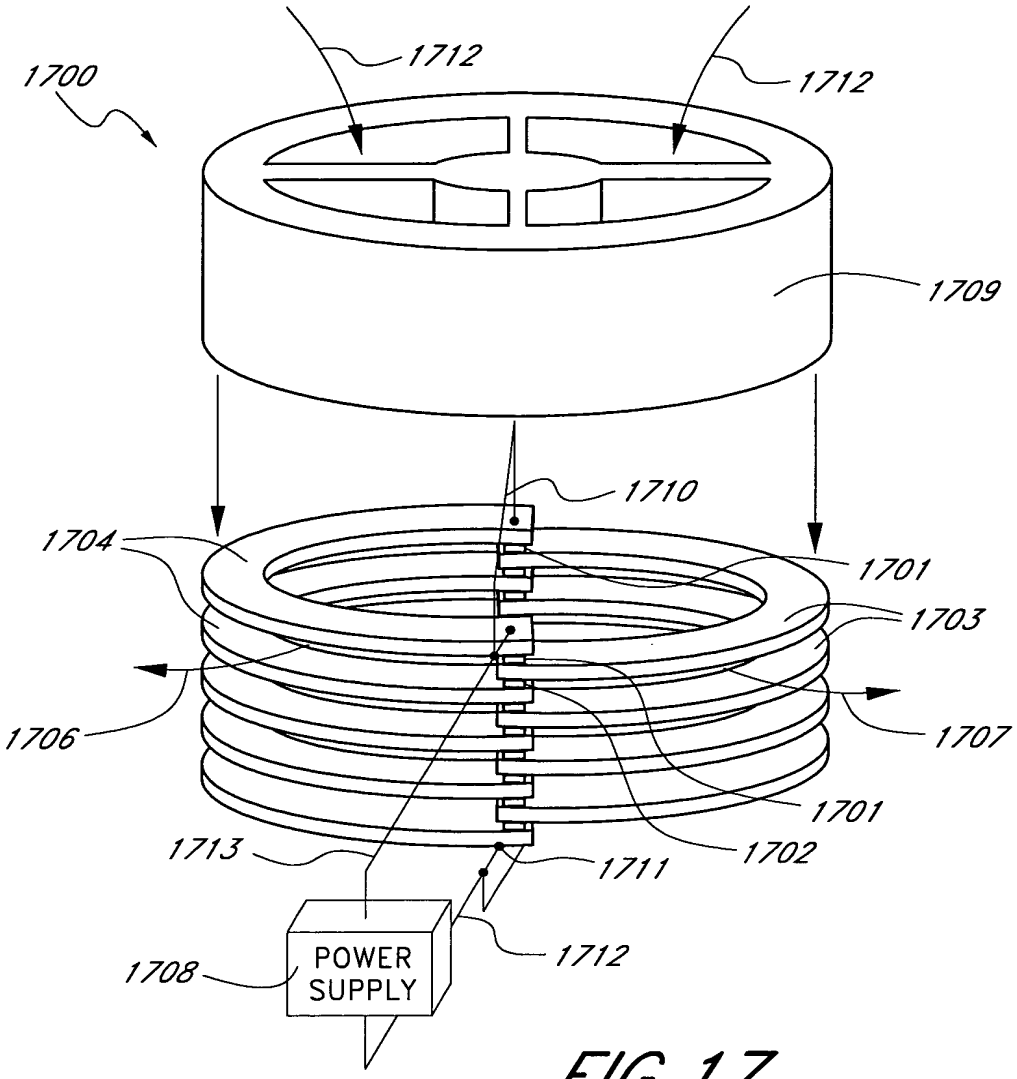

1700
1712
1712
1709
1710
1704
1701
1703
1706
1707
1701
1713
1702
1711
1712
1708
POWER SUPPLY

FIG. 17

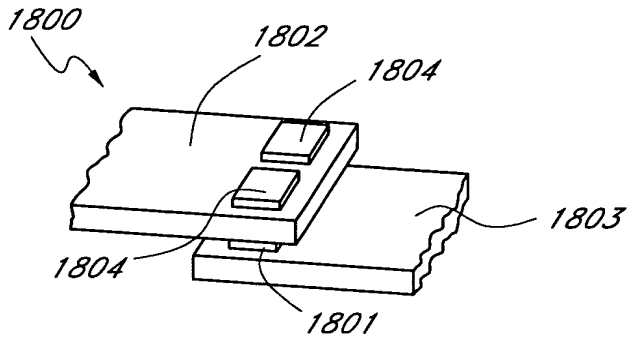

1800
1802
1804
1803
1804
1801

FIG. 18

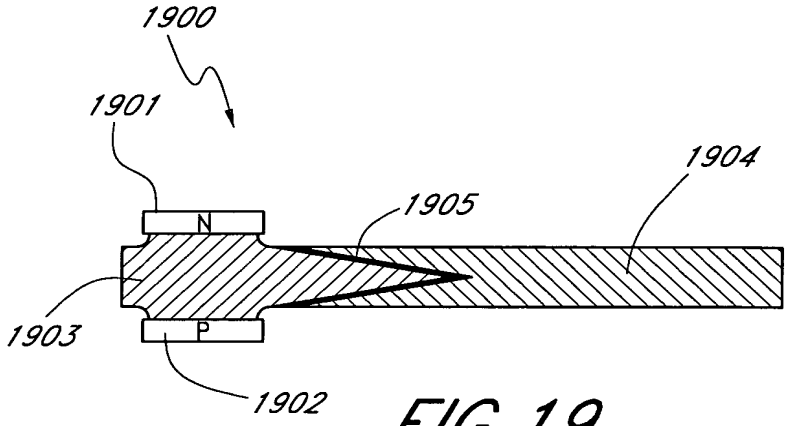


FIG. 19

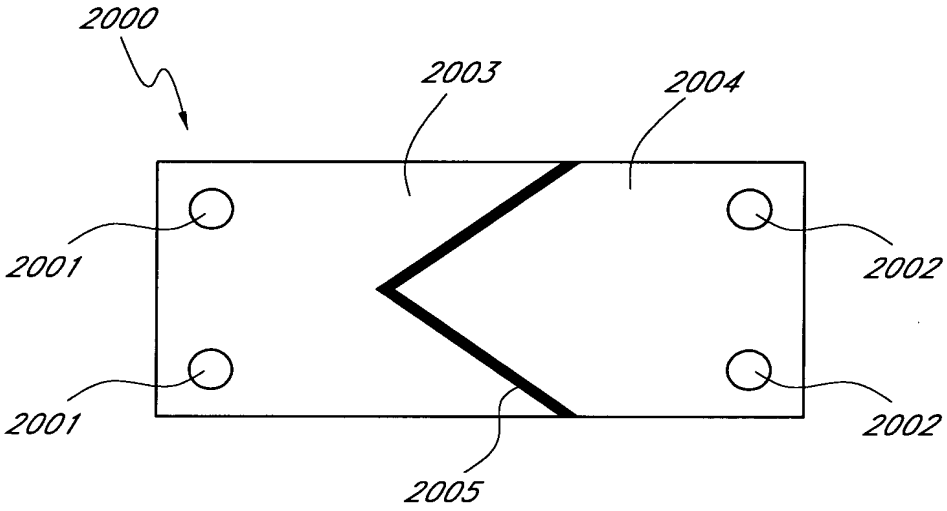


FIG. 20

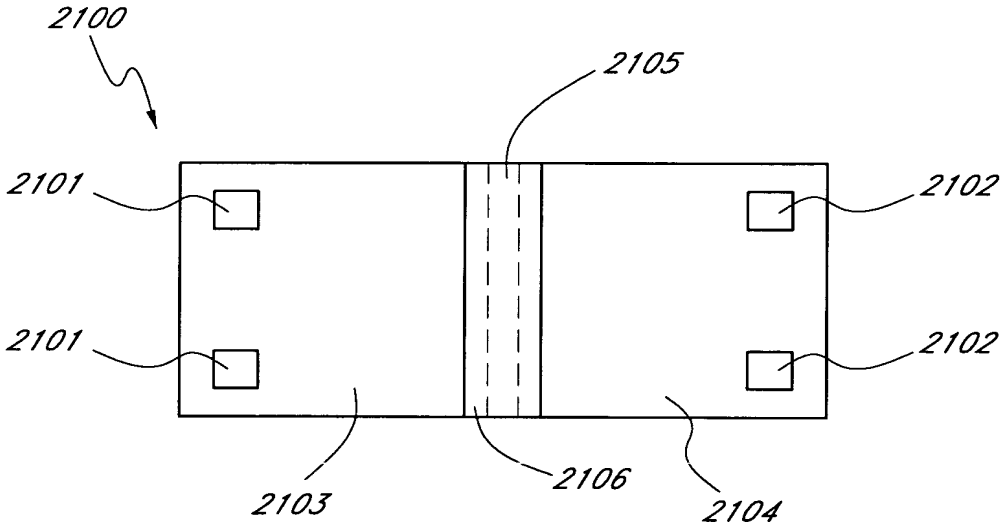


FIG. 21

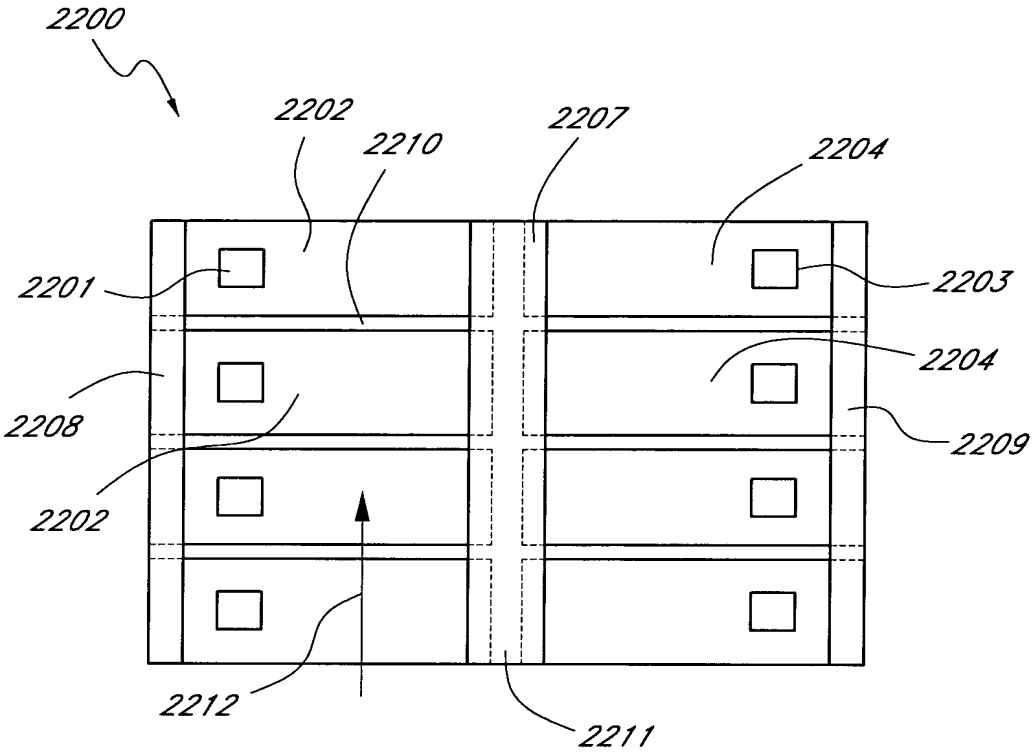

2200
2202
2210
2207
2204
2201
2203
2204
2208
2209
2202
2212
2211

FIG. 22

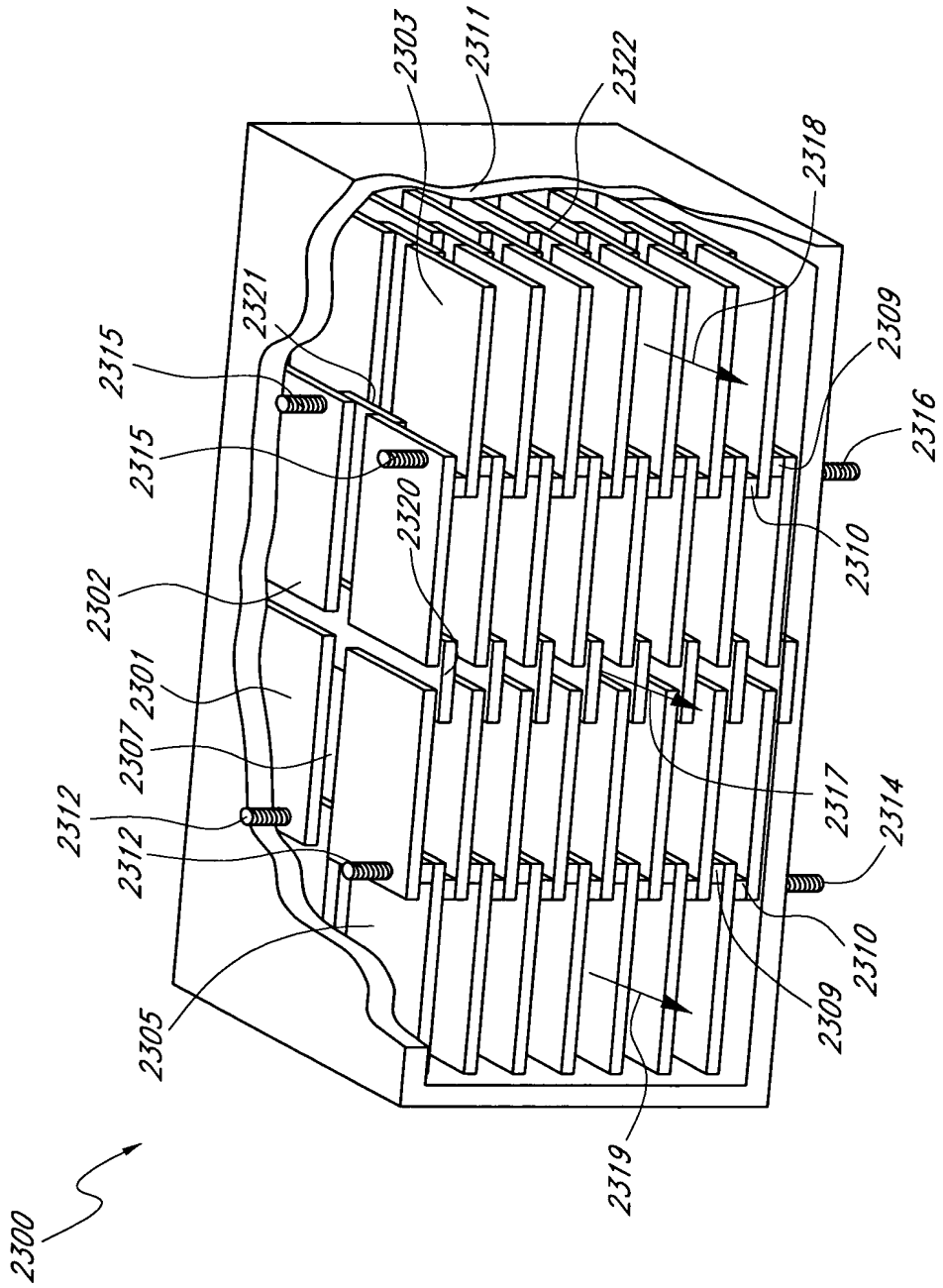

2303
2311
2322
2318
2321
2315
2309
2315
2316
2320
2310
2302
2301
2307
2312
2317
2314
2312
2310
2309
2305
2319
2300

FIG.23

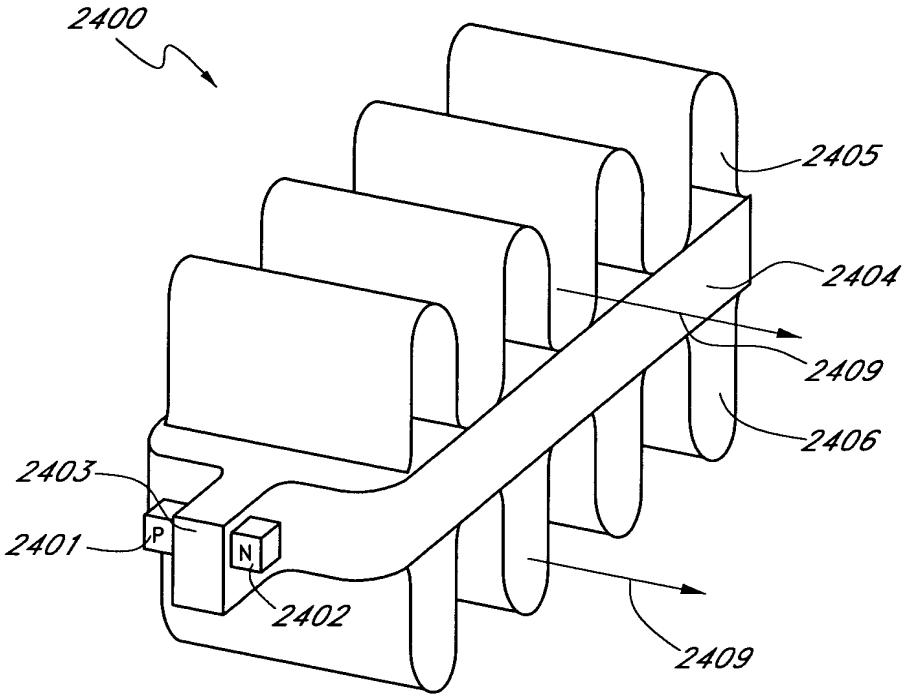


FIG. 24A

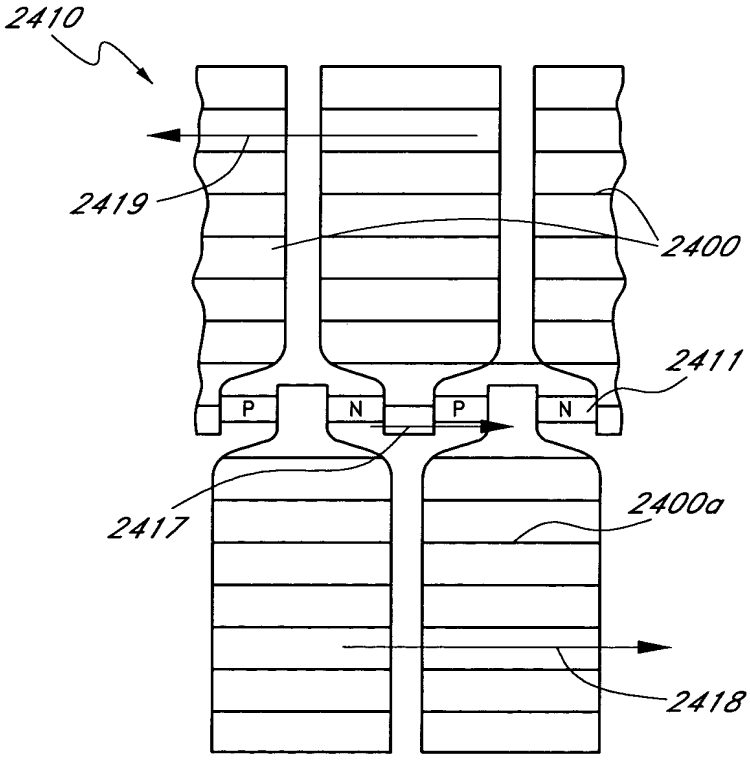


FIG. 24B

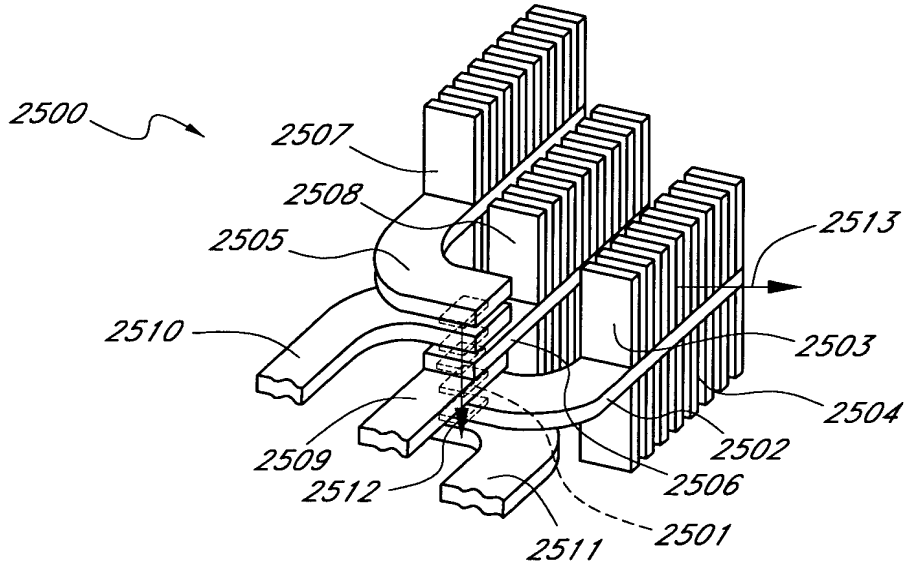


FIG. 25A

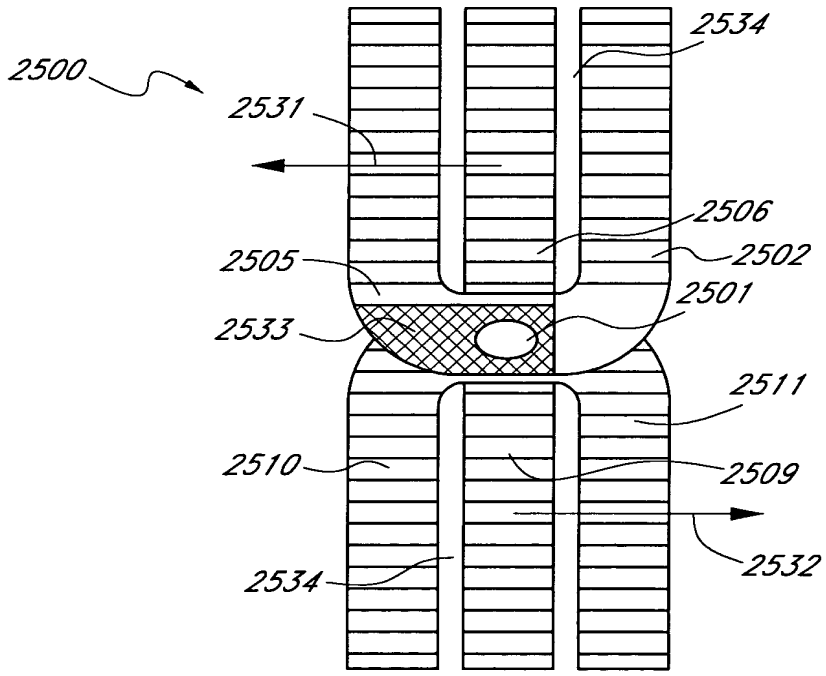


FIG. 25B

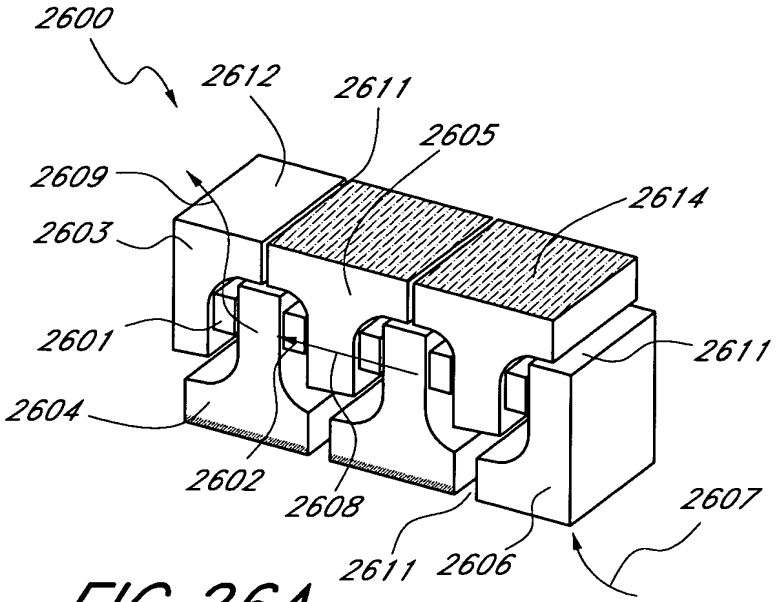


FIG. 26A

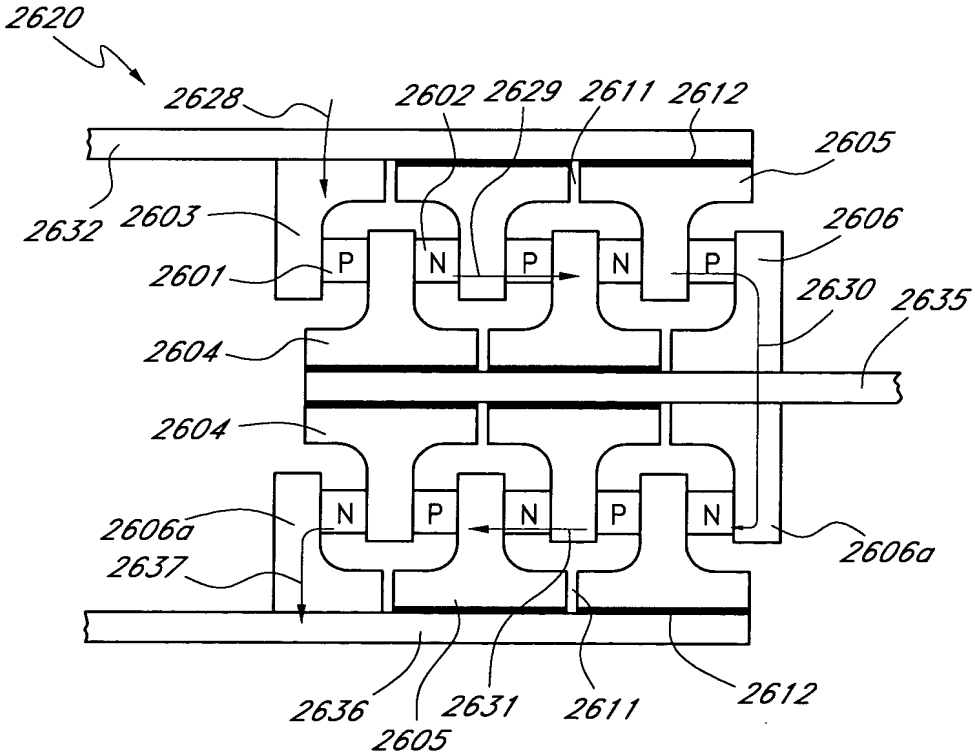


FIG. 26B

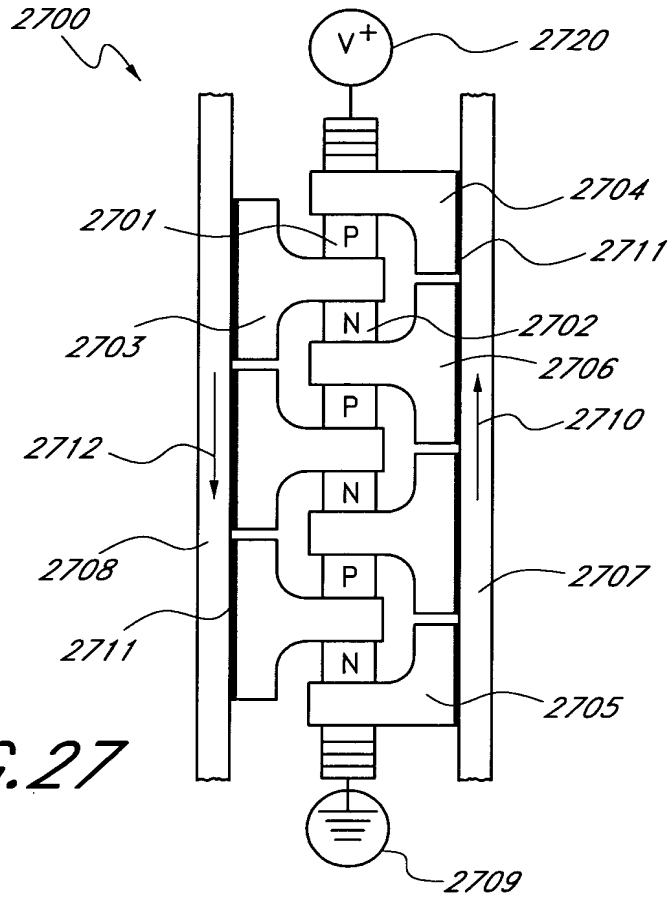

2700
V+
2720
2704
2701
P
2711
N
2703
2702
2706
P
2710
2712
N
2708
P
2707
2711
N
2705
2709

FIG. 27

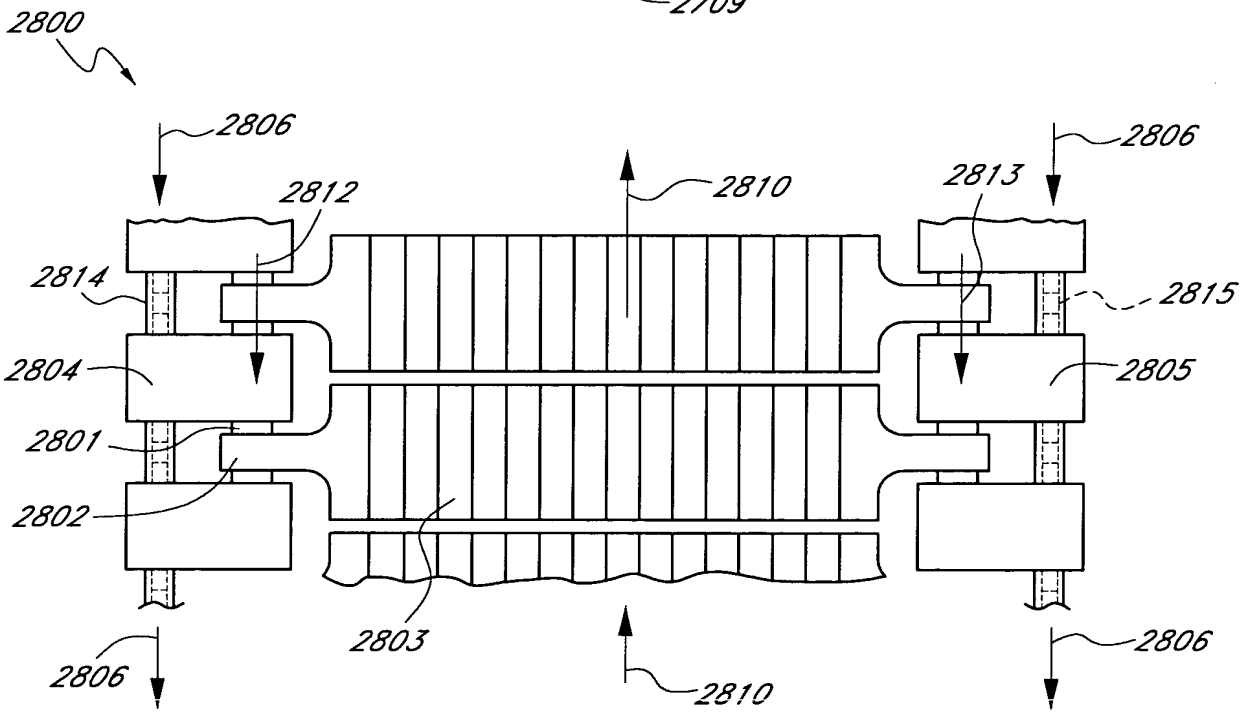

2800
2806
2812
2810
2813
2806
2814
2815
2804
2805
2801
2802
2803
2806
2810
2806

FIG. 28

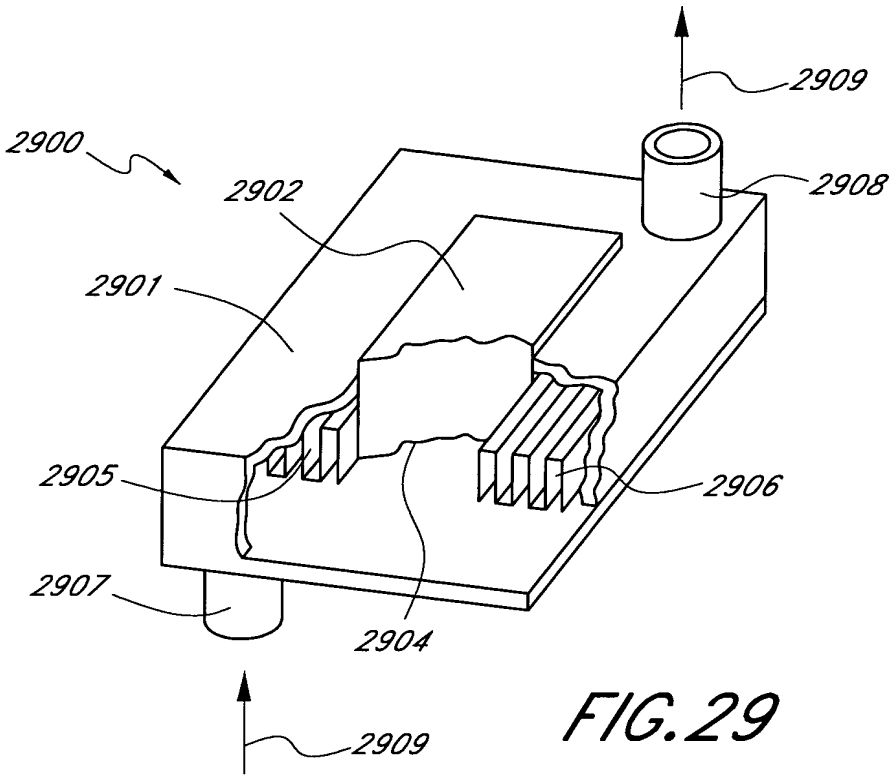

2909
2900
2902
2908
2901
2905
2906
2907
2904
2909

FIG. 29

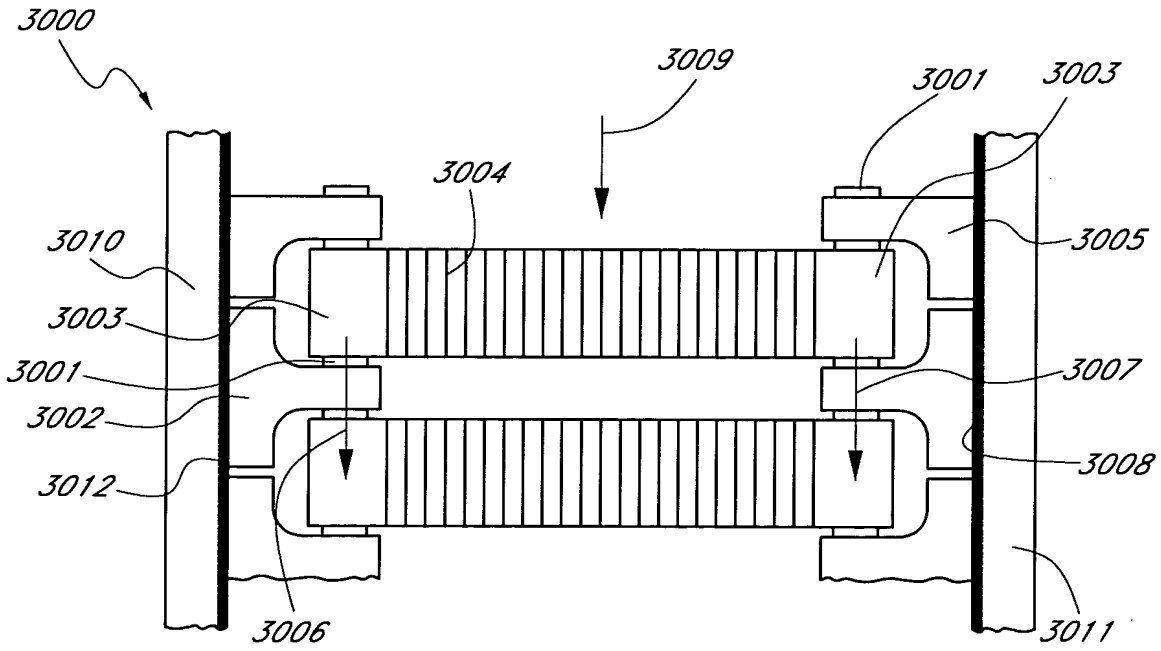

3000
3009
3001
3003
3004
3010
3005
3003
3001
3007
3002
3008
3012
3006
3011

FIG. 30

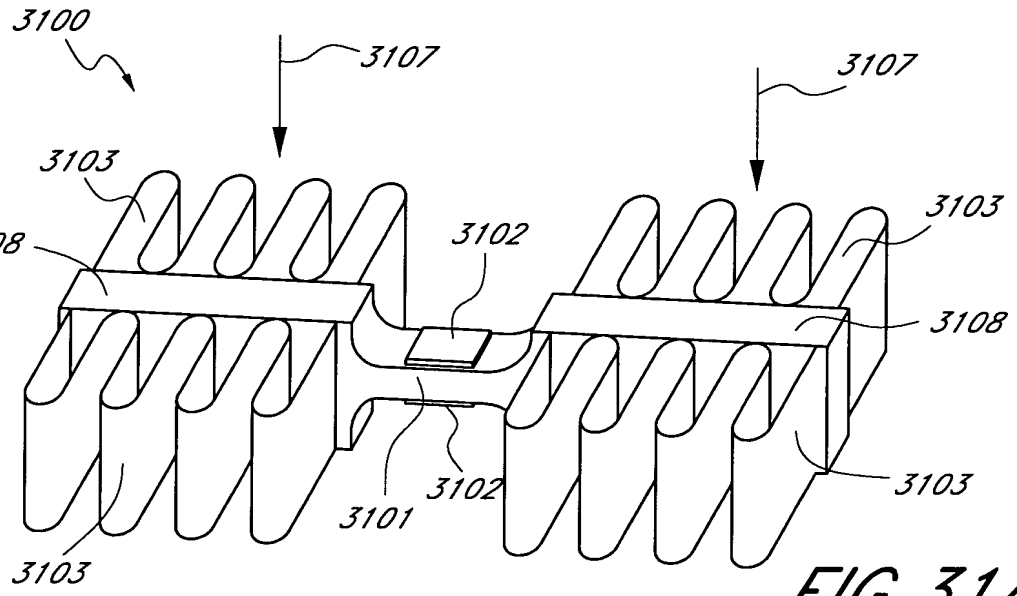


FIG. 31A

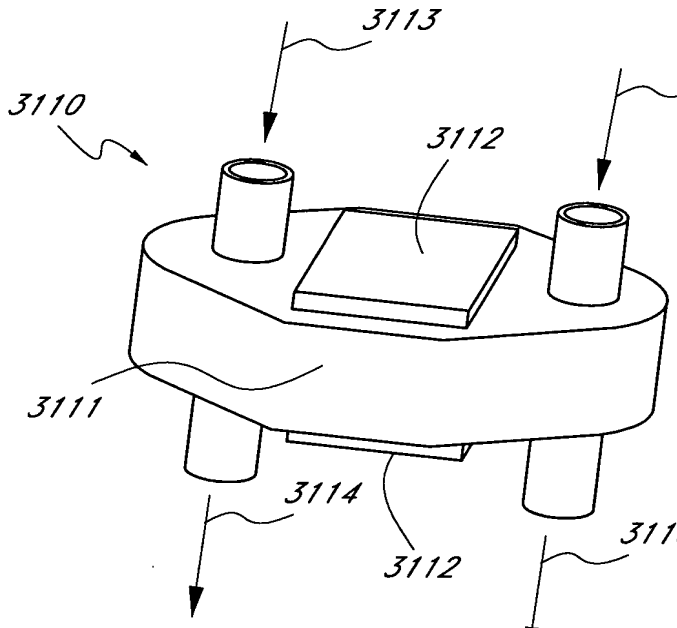


FIG. 31B

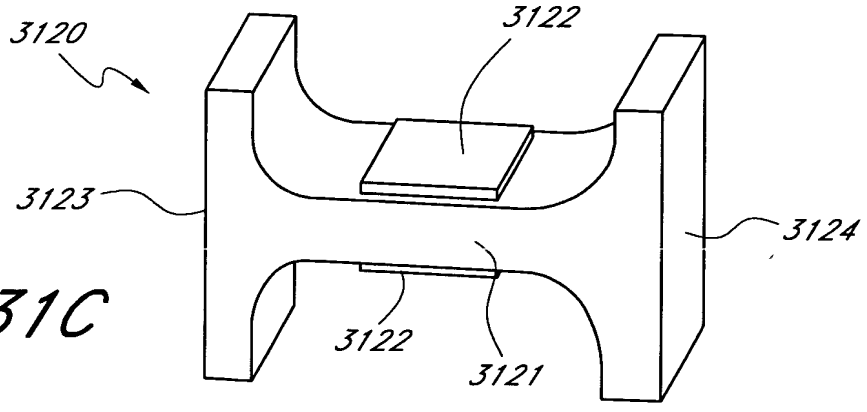


FIG. 31C